

Amendments to the Claims:

Claims 1-21 were pending. Claims 1, 2, 10, and 11 have been cancelled. Claims 3-9, 12-19, and 21 have been amended herein. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Cancelled).
2. (Cancelled).
3. (Currently Amended) The method of claim 2, [[2,]] wherein said excluding comprises excluding one or more of said plurality of candidate test cases when said result record specifies at least one of test case waived, test case currently executing, test case unable to complete previous execution attempt, test case previously executed on current design model, and previously identified bug detected in said test case not fixed in current design model.
4. (Currently Amended) The method of claim 2, [[2,]] wherein preferentially ordering includes preferring ones of said remaining ones of said plurality of candidate test cases having above-average coverage of said current design model.
5. (Currently Amended) The method of claim 2, [[2,]] wherein preferentially ordering further includes preferring ones of said remaining ones of said plurality of candidate test cases having shorter testing duration on said design model.
6. (Currently Amended) The method of claim 2, [[2,]] wherein preferentially ordering further includes preferring not previously executed ones of said remaining ones of said plurality of candidate test cases.

7. (Currently Amended) The method of claim 9, [[2,]] wherein preferentially ordering further includes preferring ones of said remaining ones of said plurality of candidate test cases having longer idle durations.

8. (Currently Amended) The method of claim 9, [[2,]] wherein preferentially ordering further includes preferring ones of said remaining ones of said plurality of candidate test cases having greater failing histories.

9. (Currently Amended) A method of performing a regression test of ordered test cases, comprising:
assigning a result record to each of a plurality of candidate test cases, said result record
including test results from testing said each of said plurality of candidate test cases
against a design model;
selecting said ordered test cases from said plurality of candidate test cases according to said
test results in said result record of said each of said plurality of candidate test cases,
wherein said selecting said ordered test cases comprises:
excluding noninsightful ones of said plurality of candidate test cases from said
ordered test cases; and
preferentially ordering remaining ones of said plurality of candidate test cases to form
ordered test cases ~~The method of claim 2, wherein said preferentially ordering~~
~~comprises:~~
dividing said remaining ones of said plurality of candidate test cases into
shorter execution ones and longer execution ones;
separately ordering said shorter execution ones into shorter-execution ordered
test cases and said longer execution ones into longer-execution ordered
test cases; and
interleaving said shorter-execution ordered test cases and said longer-
execution ordered test cases to form ordered test cases; [[.]]
testing said ordered test cases against a current design model; and

updating said result record of each of said ordered test cases in response to new test results from said testing.

10. (Cancelled).

11. (Cancelled).

12. (Currently Amended) The computer-readable medium of claim 18, [[10,]] wherein said computer-executable instructions for excluding comprise computer-executable instructions for excluding one or more of said plurality of candidate test cases when said result record specifies at least one of test case waived, test case currently executing, test case unable to complete previous execution attempt, test case previously executed on current design model, and previously identified bug detected in said test case not fixed in current design model.

13. (Currently Amended) The computer-readable medium of claim 18, [[11,]] wherein said computer-executable instructions for preferentially ordering further comprise computer-executable instructions for preferring ones of said remaining ones of said plurality of test cases having above-average coverage of said current design model.

14. (Currently Amended) The computer-readable medium of claim 18, [[11,]] wherein said computer-executable instructions for preferentially ordering further comprise computer-executable instructions for preferring ones of said remaining ones of said plurality of test cases having shorter testing duration on said design model.

15. (Currently Amended) The computer-readable medium of claim 18, [[11,]] wherein said computer-executable instructions for preferentially ordering further comprise computer-executable instructions for preferring not previously executed ones of said remaining ones of said plurality of test cases.

16. (Currently Amended) The computer-readable medium of claim 18, [[11,]] wherein said computer-executable instructions for preferentially ordering further comprise computer-executable instructions for preferring ones of said remaining ones of said plurality of test cases having longer idle durations.

17. (Currently Amended) The computer-readable medium of claim 18, [[11,]] wherein said computer-executable instructions for preferentially ordering further comprise computer-executable instructions for preferring ones of said remaining ones of said plurality of test cases having greater failing histories.

18. (Currently Amended) A computer-readable medium having computer-executable instructions for performing regression test of ordered test cases, said test comprising instructions for:
assigning a result record to each of a plurality of candidate test cases, said result record
including test results from testing said each of said plurality of candidate test cases
against a design model;
selecting said ordered test cases from said plurality of candidate test cases according to said
test results in said result record of said each of said plurality of candidate test cases,
comprises:
excluding noninsightful ones of said plurality of candidate test cases from said
ordered test cases; and

preferentially ordering remaining ones of said plurality of test cases to form ordered test cases. ~~The computer-readable medium of claim 11, wherein said computer-executable instructions for preferentially ordering comprises:~~
~~computer-executable instructions for:~~
dividing said remaining ones of said plurality of test cases into shorter execution ones and longer execution ones;
separately ordering said shorter execution ones into shorter-execution ordered test cases and said longer execution ones into longer-execution ordered test cases; and
interleaving said shorter-execution ordered test cases and said longer-execution test cases to form ordered test cases; [[.]]
testing said ordered test cases against a current design model; and
updating said result record of said ordered test cases in response to new test results from said testing.

19. (Currently Amended) An ordered regression test system, comprising:
a test case database including a plurality of candidate test cases, each one of said plurality of candidate test cases including a result record including test results from testing said one of said plurality of test cases against a design model;
a test case ordering process to select said ordered test cases from said plurality of candidate test cases according to said test results in said result record of said each of said plurality of candidate test cases comprises:
excluding noninsightful ones of said plurality of candidate test cases from said ordered test cases; and
preferentially ordering remaining ones of said plurality of candidate test cases to form ordered test cases comprises:
dividing said remaining ones of said plurality of candidate test cases into shorter execution ones and longer execution ones;
separately ordering said shorter execution ones into shorter-execution ordered test cases and said longer execution ones into longer-execution ordered test cases; and

interleaving said shorter-execution ordered test cases and said longer-execution ordered test cases to form ordered test cases;

a current design model to undergo regression testing; and
one or more testers for testing said ordered test cases against a current design model and
generating new test results to update said result record.

20. (Original) The ordered regression test system of claim 19, further comprising a tester scheduling process operably coupled between said test case ordering process and said one or more testers, said tester scheduling process configured to distribute portions of said ordered test cases for execution among said one or more testers.

21. (Currently Amended) An ordered regression test system, comprising:
means for assigning a result record to each of a plurality of candidate test cases, said result record including test results from testing said each of said plurality of candidate test cases against a design model;
means for selecting said ordered test cases from said plurality of candidate test cases according to said test results in said result record of said each of said plurality of candidate test cases, wherein said means for selecting said ordered test cases comprises:
means for excluding noninsightful ones of said plurality of candidate test cases from said ordered test cases; and
means for preferentially ordering remaining ones of said plurality of candidate test cases to form ordered test cases comprises:
means for dividing said remaining ones of said plurality of candidate test cases into shorter execution ones and longer execution ones;
means for separately ordering said shorter execution ones into shorter-execution ordered test cases and said longer execution ones into longer-execution ordered test cases; and

means for interleaving said shorter-execution ordered test cases and said longer-execution ordered test cases to form ordered test cases;

means for testing said ordered test cases against a current design model; and

means for updating said result record of said ordered test cases in response to new test results from said testing.